Index of Authors

ADEBIYI, A. R. A. *see* FURR, J. R.

ADHYA, T. K., SUDHAKAR-BARIK & SETHUNATHAN, N. Hydrolysis of selected organophosphorus insecticides by two bacteria isolated from flooded soil 167

ANAGNOSTOPOULOS, G. D. & SIDHU, H. S. The effect of water activity and the a_w controlling solute on spore germination of *Bacillus stearothermophilus* 335

ANAGNOSTOPOULOS, G. D. *see* KROLL, R. G.

BAILEY, M. *see* LOVE, D. N.

BAKKER, M. *see* HAZENBERG, M. P.

BASHAN, Y., KRITZMAN, G., SHARON, E., OKON, Y. & HENIS, Y. A note on the detection of phytopathogenic bacteria within the leaf by a differential staining procedure 315

BAYLISS, C. E. & WAITES, W. M. Resistance of *Serratia marcescens* to hydrogen peroxide 131

BAYLISS, C. E., WAITES, W. M. & KING, N. R. Resistance and structure of spores of *Bacillus subtilis* 379

BIRKBY, K. M. & PREECE, T. F. Differentiation of Gram positive and Gram negative bacteria in transparent acrylic resin emulsion replicas of surfaces of plants 59

BLICKSTAD, E., ENFORS, S.-O. & MOLIN, G. Effect of hyperbaric carbon dioxide pressure on the microbial flora of pork stored at 4 or 14°C 493

BREEZE, A. S. *see* SIMPSON, A. M.

BROCKLEHURST, T. F. & LUND, B. M. Properties of pseudomonads causing spoilage of vegetables stored at low temperature 259

BRYANT, T. N. *see* LEE, J. V.

CHIRIFE, J., FERRO FONTÁN, C. & SCORZA, O. C. The intracellular water activity of bacteria in relation to the water activity of the growth medium 475

CLINTON, N. A., WEAVER, R. W. & HIDALGO, R. J. Transmission of *Salmonella typhimurium* among feedlot cattle after oral inoculation 149

COLLINS, M. D., ROSS, H. N. M., TINDALL, B. J. & GRANT, W. D. Distribution of isoprenoid quinones in halophilic bacteria 559

COLWELL, R. R. *see* KAPER, J. B.

CROSS, T. Presidential Address—Aquatic actinomycetes: a critical survey of the occurrence, growth and role of actinomycetes in aquatic habitats 397

CUMINS, E. *see* WILLIAMS, G.R.

DAINTY, R. H. *see* MACASKIE, L. E.

DAMARÉ, J. M. *see* LEE, W. H.

DAVIES, G. *see* FURR, J. R.

DEGENER, J. E., THONUS, I. P. & MICHEL, M. F. The antimicrobial susceptibility test: a comparison of the results of four methods 505

DEVRIESE, L. A. Baird-Parker medium supplemented with acriflavine, polymyxins and sulphonamide for the selective isolation of *Staphylococcus aureus* from heavily contaminated materials 351

DUNICAN, L. K. *see* MCLOUGHLIN, T.

ENFORS, S.-O. *see* BLICKSTAD, E.

FENLON, D. *see* GONZALEZ-LOPEZ, J.

FERRO FONTÁN, C. *see* CHIRIFE, J.

FLEET, G. H. *see* YOOVIDHYA, T.

FRY, J. C., HUMPHREY, N. C. B. & ILES, T. C. Time-series analysis for identifying cyclic components in microbiological data 189

FURNISS, A. L. *see* LEE, J. V.

FURR, J. R., DAVIES, G., ADEBIYI, A. R. A. & RUSSELL, A. D. A novel method of assaying antimicrobial agents by particle microelectrophoresis 173

GARCIA, M. L. *see* GUTIÉRREZ, L.

GARDENER, A. C. *see* WILLIAMS, G. R.

GILBOA-GARBER, N. & MIZRAHI, L. Binding of *Pseudomonas aeruginosa* lectin to *Rhizobium* sp. 21

GILLESPIE, N. C. A numeral taxonomic study of *Pseudomonas*-like bacteria isolated from fish in southeastern Queensland and their association with spoilage 29

GONZALEZ-LOPEZ, J., RHODES-ROBERTS, M. E., PATON, A. M. & FENLON, D. The selective activity of a benzoxazole brightener against phytopathogenic bacteria 319

GRANT, W. D. *see* COLLINS, M. D.

GRIFFITHS, M. W., PHILLIPS, J. D. & MUIR, D. D. Thermostability of proteases and lipases from a number of species of psychrotrophic bacteria of dairy origin 289

GUTIÉRREZ, L., MENES, I., GARCIA, M. L. & MORENO, B. Sensitivity to lysostaphin as a criterion for the identification of staphylococci from animal origin 541

HARRIS, M. E. *see* LEE, W. H.

HAZENBERG, M. P., BAKKER, M. & VERSCHOOR-BURGGRAAF, A. Effects of the human intestinal flora on germ-free mice 95

HENDERSON, P. J. F. *see* MACASKIE, L. E.

HENIS, Y. *see* BASHAN, Y.

HIDALGO, R. J. *see* CLINTON, N. A.

HINTON, M. *see* LINTON, A. H.

HOLMES, B. & ROBERTS, P. The classification, identification and nomenclature of agrobacteria 443

HUMPHREY, N. C. B. *see* FRY, J. C.

ILES, T. C. *see* FRY, J. C.

JOHNSTON, R. W. *see* LEE, W. H.

JONES, K. L. & RHODES-ROBERTS, M. E. The survival of marine bacteria under starvation conditions 247

JONES, M. G. & NOBLE, W. C. A study of fatty acids as a taxonomic tool for dermatophyte fungi 577

JONES, R. F. *see* LOVE, D. N.

JOSEPH, S. W. *see* KAPER, J. B.

KAHN, A. W. & MES-HARTREE, M. Metabolism of acetate and hydrogen by a mixed population of anaerobes capable of converting cellulose to methane 283

KAPER, J. B., LOCKMAN, H., COLWELL, R. R. &

JOSEPH, S. W. *Aeromonas hydrophila*: Ecology and toxigenicity of isolates from an estuary 359
KEMPTON, A. G. *see* SEENAPPA, M.
KING, N. R. *see* BAYLISS, C. E.
KRITZMAN, G. *see* BASHAN, Y.
KROLL, R. G. & ANAGNOSTOPOULOS, G. D. Potassium leakage as a lethality index of phenol and the effect of solute and water activity 139
LEE, J. V., SHREAD, P., FURNISS, A. L. & BRYANT, T. N. Taxonomy and description of *Vibrio fluvialis* sp. nov. (synonym group F vibrios, group EF6) 73
LEE, W. H., SMITH, R. E., DAMARÉ, J. M., HARRIS, M. E. & JOHNSTON, R. W. Evaluation of virulence test procedures for *Yersinia enterocolitica* recovered from foods 529
LINTON, A. H., TIMONEY, J. F. & HINTON, M. The ecology of chloramphenicol resistance in *Salmonella typhimurium* and *Escherichia coli* in calves with endemic salmonella infection 115
LOCKMAN, H. *see* KAPER, J. B.
LOVE, D. N., JONES, R. F. & BAILEY, M. Characterization of *Bacteroides* species isolated from soft tissue infections in cats 567
LUND, B. M. *see* BROCKLEHURST, T. F.
MACASKIE, L. E., DAINTY, R. H. & HENDERSON, P. J. F. The role of thiamine as a factor for the growth of *Brochothrix thermosphacta* 267
MCLOUGHLIN, T. & DUNICAN, L. K. An ecological study of marked *Rhizobium trifolii* strains on the host plant *Trifolium repens* var. Huai in an acidic peat and a neutral mineral soil 65
MENES, I. *see* GUTIÉRREZ, L.
MES-HARTREE, M. *see* KHAN, A. W.
MICHEL, M. F. *see* DEGENER, J. E.
MIZRAHI, L. *see* GILBOA-GARBER, N.
MOLIN, G. *see* BLICKSTAD, E.
MORENO, B. *see* GUTIÉRREZ, L.
MORGAN, F. J. & PRIEST, F. G. Characterization of a thermostable α-amylase from *Bacillus licheniformis* 107
MUIR, D. D. *see* GRIFFITHS, M. W.
NOBLE, W. C. *see* JONES, M. G.
OKON, Y. *see* BASHAN, Y.
PALMIER, M. *see* WILLIAMS, G. R.
PANKHURST, C. E. Nutritional requirement for the expression of nitrogenase activity by *Rhizobium* sp. in agar culture 45
PARK, R. W. A. *see* RAZI, M. H. H.
PATON, A. M. *see* GONZALEZ-LOPEZ, J.
PETTIPHER, G. L. & RODRIGUES, U. M. Rapid enumeration of bacteria in heat-treated milk and milk products using a membrane filtration epifluorescent microscopy technique 157
PHILLIPS, J. D. *see* GRIFFITHS, M. W.
PREECE, T. F. *see* BIRKBY, K. M.
PRIEST, F. G. *see* MORGAN, F. J.
RAZI, M. H. H., PARK, R. W. A. & SKIRROW, M. B. Two new tests for differentiating between strains of *Campylobacter* 55
RHODES-ROBERTS, M. E. *see* GONZALEZ-LOPEZ, J.
RHODES-ROBERTS, M. E. *see* JONES, K. L.
RICHARD, J. Bacteriological examination of pipeline milking machines by rinsing the entire system 433
RICHARD, J. Microbiological aspects of cold cleaning with an iodophor of milk pipeline installations 229
RIGBY, G. J. An egg-yolk agar diffusion assay for monitoring phospholipase C in cultures of *Clostridium welchii* 11
ROBERTS, P. *see* HOLMES, B.
RODRIGUES, U. M. *see* PETTIPHER, G. L.
ROSS, H. N. M. *see* COLLINS, M. D.
RUBIDGE, T. *see* WILLIAMS, G. R.
RUSSELL, A. D. *see* FURR, J. R.
RUSSELL, C. & TAGG, J. R. Role of bacteriocin during plaque formation by *Streptococcus salivarius* and *Streptococcus sanguis* on a tooth in an artificial mouth 305
SCORZA, O. C. *see* CHIRIFE, J.
SEENAPPA, M. & KEMPTON, A. G. A note on the occurrence of *Bacillus cereus* and other species of *Bacillus* in Indian spices of export quality 225
SETHUNATHAN, N. *see* ADHYA, T. K.
SHARON, E. *see* BASHAN, Y.
SHREAD, P. *see* LEE, J. V.
SIDHU, H. S. *see* ANAGNOSTOPOULOS, G. D.
SIMPSON, A. M. & BREEZE, A. S. The sterility testing of aminoglycosides: a new approach using enzymic inactivation 469
SKIRROW, M. B. *see* RAZI, M. H. H.
SLEATH, K. P. *see* WATKINS, J.
SMITH, R. E. *see* LEE, W. H.
SNELL, G. C. A comparison of alternative methods to viable count for indicating growth of *Mycoplasma gallisepticum* in liquid culture 275
SOCIETY FOR APPLIED BACTERIOLOGY, THE. The first fifty years 425
STOLLE, A. Spreading of salmonellas during cattle slaughtering 239
SUDHAKAR-BARIK *see* ADHYA, T. K.
TAGG, J. R. *see* RUSSELL, C.
THONUS, I. P. *see* DEGENER, J. E.
TIMONEY, J. F. *see* LINTON, A. H.
TINDALL, B. J. *see* COLLINS, M. D.
TYAGI, A. K. *see* TYAGI, J. S.
TYAGI, J. S., TYAGI, A. K. & VENKITASUBRAMANIAN, T. A. Preparation and properties of spheroplasts from *Aspergillus parasiticus* with special reference to the *de novo* synthesis of aflatoxins 481
VENKITASUBRAMANIAN, T. A. *see* TYAGI, J. S.
VERSCHOOR-BURGGRAAF, A. *see* HAZENBERG, M. P.
WAITES, W. M. *see* BAYLISS, C. E.
WATKINS, J. & SLEATH, K. P. Isolation and enumeration of *Listeria monocytogenes* from sewage, sewage sludge and river water 1
WEAVER, R. W. *see* CLINTON, N. A.
WILLIAMS, G. R., CUMINS, E., GARDENER, A. C., PALMER, M. & RUBIDGE, T. The growth of *Pseudomonas putida* in AVTUR aviation turbine fuel 551
YOOVIDHYA, T. & FLEET, G. H. An evaluation of the A-1 most probable number and the Anderson and Baird-Parker plate count methods for enumerating *Escherichia coli* in the Sydney Rock Oyster, *Crassostrea commercialis* 519

Index of Subjects

Acrylic emulsion replicas (Birkby & Preece) 59
Aeromonas hydrophila (Kaper, Lockman, Colwell & Joseph) 359
Aflatoxins (Tyagi, Tyagi & Venkitasubramanian) 481
Agrobacterium (Holmes & Roberts) 443
α-Amylase (Morgan & Priest) 107
Aminoglycosides (Simpson & Breeze) 469
Anaerobes (Khan & Mes-Hartree) 283
Anderson & Baird-Parker counts (Yoovidhya & Fleet) 519
Antimicrobial (Degener, Thonus & Michel) 505
Aquatic actinomycetes (Cross) 397
Aspergillus (Tyagi, Tyagi & Venkitasubramanian) 481
Assaying antimicrobial agents (Furr, Davies, Adebiyi & Russell) 173
Aviation fuel (Williams, Cumins, Gardener, Palmier & Rubidge) 551
AVTUR (Williams, Cumins, Gardener, Palmier & Rubidge) 551
Bacillus cereus (Seenappa & Kempton) 225
Bacillus licheniformis (Morgan & Priest) 107
Bacillus stearothermophilus (Anagnostopoulos & Sidhu) 335
Bacillus subtilis (Bayliss, Wailes & King) 379
Bacteriocin (Russell & Tagg) 305
Bacteroides (Love, Jones & Bailey) 567
Baird-Parker medium (Devriese) 351
Benzoxazole (Gonzalez-Lopez, Rhodes-Roberts, Paton & Fenlon) 319
Brightener (Gonzalez-Lopez, Rhodes-Roberts, Paton & Fenlon) 319
Brochothrix themosphacta (Macaskie, Dainty & Henderson) 267
Campylobacter (Razi, Park & Skirrow) 55
Cat infections (Love, Jones & Bailey) 567
Cattle (Clinton, Weaver & Hidalgo) 149
Cattle slaughtering (Stolle) 239
Cellulose (Khan & Mes-Hartree) 283
Chloramphenicol-resistance (Linton, Timoney & Hinton) 115
Clostridium welchii (Rigby) 11
Dermatophyte fungi (Jones & Noble) 577
Egg-yolk diffusion (Rigby) 11
Epifluorescent microscopy (Pettipher & Rodrigues) 155
Escherichia coli (Linton, Timoney & Hinton) 115
Fatty acids (Jones & Noble) 577
Flooded soil (Adhya, Sudhakar-Barik & Sethunathan) 167
Foods (Lee, Smith, Damaré, Harris & Johnston) 529
Germ-free mice (Hazenberg, Bakker & Verschoor-Burggraaf) 95
Halophiles (Collins, Ross, Tindall & Grant) 559
Heat-treated milk (Pettipher & Rodrigues) 155
History of The Society for Applied Bacteriology 425
Hydrogen peroxide (Bayliss & Waites) 131
Hyperbaric CO_2 (Blickstad, Enfors & Molin) 493
Indian spices (Seenappa & Kempton) 225
Intestinal flora (Hazenberg, Bakker & Verschoor-Burggraaf) 95
Iodophor (Richard) 229
Leaf staining (Bashan, Kritzman, Sharon, Okon & Henis) 315
Lectin (Gilboa-Garber & Mizrahi) 21
Lethality index (Kroll & Anagnostopoulos) 139
Lipases (Griffiths, Phillips & Muir) 289
Listeria monocytogenes (Watkins & Sleath) 1
Lysostaphin (Gutiérrez, Menes, Garcia & Moreno) 541
Marine bacteria (Jones & Rhodes-Roberts) 247
Membrane filtration (Pettipher & Rodrigues) 155
Menaquinones (Collins, Ross, Tindall & Grant) 559
Methane (Khan & Mes-Hartree) 283
Milking machines (Richard) 229
Milk pipelines (Richard) 229
Most probable numbers (Yoovidhya & Fleet) 519
Mycoplasma gallisepticum (Snell) 275
Nitrogenase (Pankhurst) 45
Numerical taxonomy (Gillespie) 29
Organophosphorus insecticides (Adhya, Sudhakar-Barik & Sethunathan) 167
Oysters (Yoovidhya & Fleet) 519
Particle microelectrophoresis (Furr, Davies, Adebiyi & Russell) 173
Phospholipase (Rigby) 11
Phytopathogenic bacteria (Bashan, Kritzman, Sharon, Okon & Henis) 315 (Gonzalez-Lopez, Rhodes-Roberts, Paton & Fenlon) 319
Plant surface bacteria (Birkby & Preece) 59
Pipeline milking machines (Richard) 433
Pork (Blickstad, Enfors & Molin) 493
Potassium leakage (Kroll & Anagnostopoulos) 139
Proteases (Griffiths, Phillips & Muir) 289
Pseudomonads (Brocklehurst & Lund) 259
Pseudomonas aeruginosa (Gilboa-Garber & Mizrahi) 21
Pseudomonas-like bacteria (Gillespie) 29
Pseudomonas putida (Williams, Cumins, Gardener, Palmier & Rubidge) 551
Psychrotrophic bacteria (Griffiths, Phillips & Muir) 289
Rhizobium (Gilboa-Garber & Mizrahi) 21 (Pankhurst) 45
Rhizobium trifolii (McLoughlin & Dunican) 65
River water (Watkins & Sleath) 1
Salmonella (Clinton, Weaver & Hidalgo) 149
Salmonellas (Stolle) 239
Serratia marcescens (Bayliss & Waites) 131
Sewage (Watkins & Sleath) 1
Spheroplasts (Tyagi, Tyagi & Venkitasubramanian) 481
Spices (Seenappa & Kempton) 225

Spoilage (Gillespie) 29
Spore resistance (Bayliss, Waites & King) 379
Spore structures (Bayliss, Waites & King) 379
Staphylococcus aureus (Devriese) 351 (Gutiérrez, Menes, Garcia & Moreno) 541
Starvation (Jones & Rhodes-Roberts) 247
Sterility testing (Simpson & Breeze) 469
Streptococcus (Russell & Tagg) 305
Susceptibility tests (Degener, Thonus & Michel) 505
Thermostability (Griffiths, Phillips & Muir) 289
Thiamine (Macaskie, Dainty & Henderson) 267
Time series analysis (Fry, Humphrey & Iles) 189
Tooth (Russell & Tagg) 305
Trifolium repens (McLoughlin & Dunican) 65
Ubiquinones (Collins, Ross, Tindall & Grant) 559
Vegetable spoilage (Brocklehurst & Lund) 259
Vibrio fluvalis (Lee, Shread, Furniss & Bryant) 73
Water activity (Anagnostopoulos & Sidhu) 335 (Chirife, Ferro Fontán & Scorza) 475 (Kroll & Anagnostopoulos) 139
Yersinia enterocolitica (Lee, Smith, Damaré, Harris & Johnston) 529